#### PROJECT-1

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### **Description:**

For a chat server broadcast application, I used threads. Clients are trying to connect to the server. Using socket programming I established a connection between server and multiple clients.

#### #libraries needed

import sys

import socket

import select

import threading

# #requirements

python 2.7

# # running server program

python.server.py

## **#running client program**

pass the serverip and port from the server program to client program while running python client.py [serverip] [port]

#### case 1: chat between/among clients



Case 4: when client is trying to establish a connection which is not active

```
jupyter_mac.command — ssh cheeti@linprog.cs.fsu.edu — zsh — 164x25
enter ctrl+c to terminate
('128.186.120.158', 49690)
connection established from ('128.186.120.186', 51644)
the number active connections1
chemical entire in the control of the co
```

#### jupyter\_mac.command — ssh cheeti@linprog.cs.fsu.edu — zsh — 80×24 cheeti@linprog3.cs.fsu.edu:~>cd project1 cheeti@linprog3.cs.fsu.edu:~/project1>python chatclient.py 128.186.120.158 49969 message received from Client : server wants to close the connection cheeti@linprog5.cs.fsu.edu:~/project1>python chatclient.py 128.186.120.158 34820 ('128.186.120.158', 49969) Message received from the server: welcome to the server type'close' to exit ('128.186.120.158', 34820) message received from Client : server wants to close the connection cheeti@linprog3.cs.fsu.edu:-/projectl>python chatclient.py 128.186.128.158 34820 message received from Client : ('128.186.120.186', 52298):hi message received from Client : ('128.186.120.186', 52298):hiw are you hey 52298 in fine close ('128.186.120.158', 34820) Message received from the server: welcome to the server type'close' to exit him how are you message received from Client : server is closing the connection cheeti@linprog5.cs.fsu.edu:~/project1>python chatclient.py 128.186.120.158 34820 message received from Client : ('128.186.120.189', 50140):hey 52298 message received from Client : ('128.186.120.189', 50140):iam fine ('128.186.120.158', 34820) connection failed cheeti@linprog5.cs.fsu.edu:~/project1>|| message received from Client : server wants to close the connection cheeti@linprog3.cs.fsu.edu:~/project1>[]